

DATE: 02/02/2000

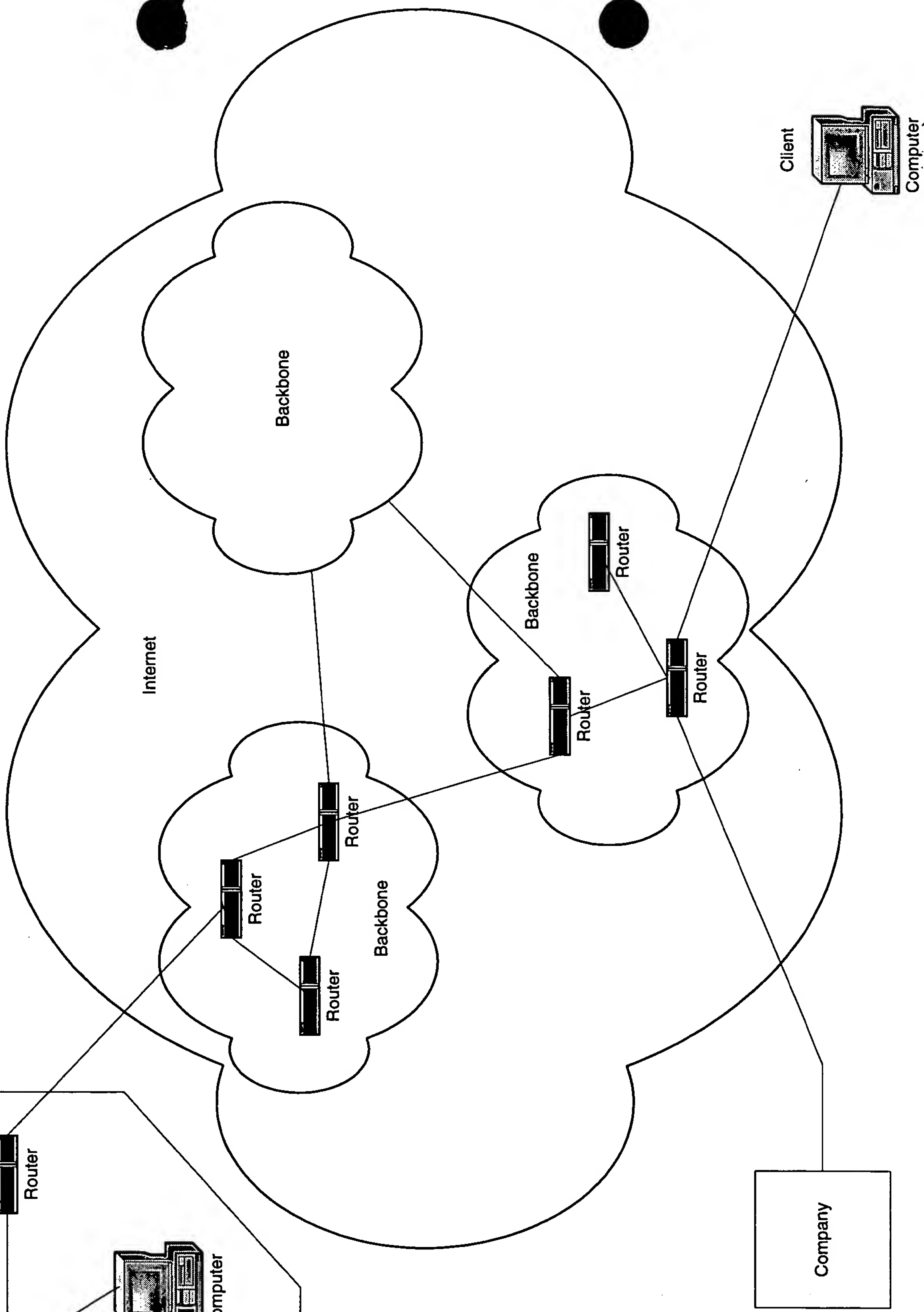


Figure 1

200

OUTLET "GEEB" 250

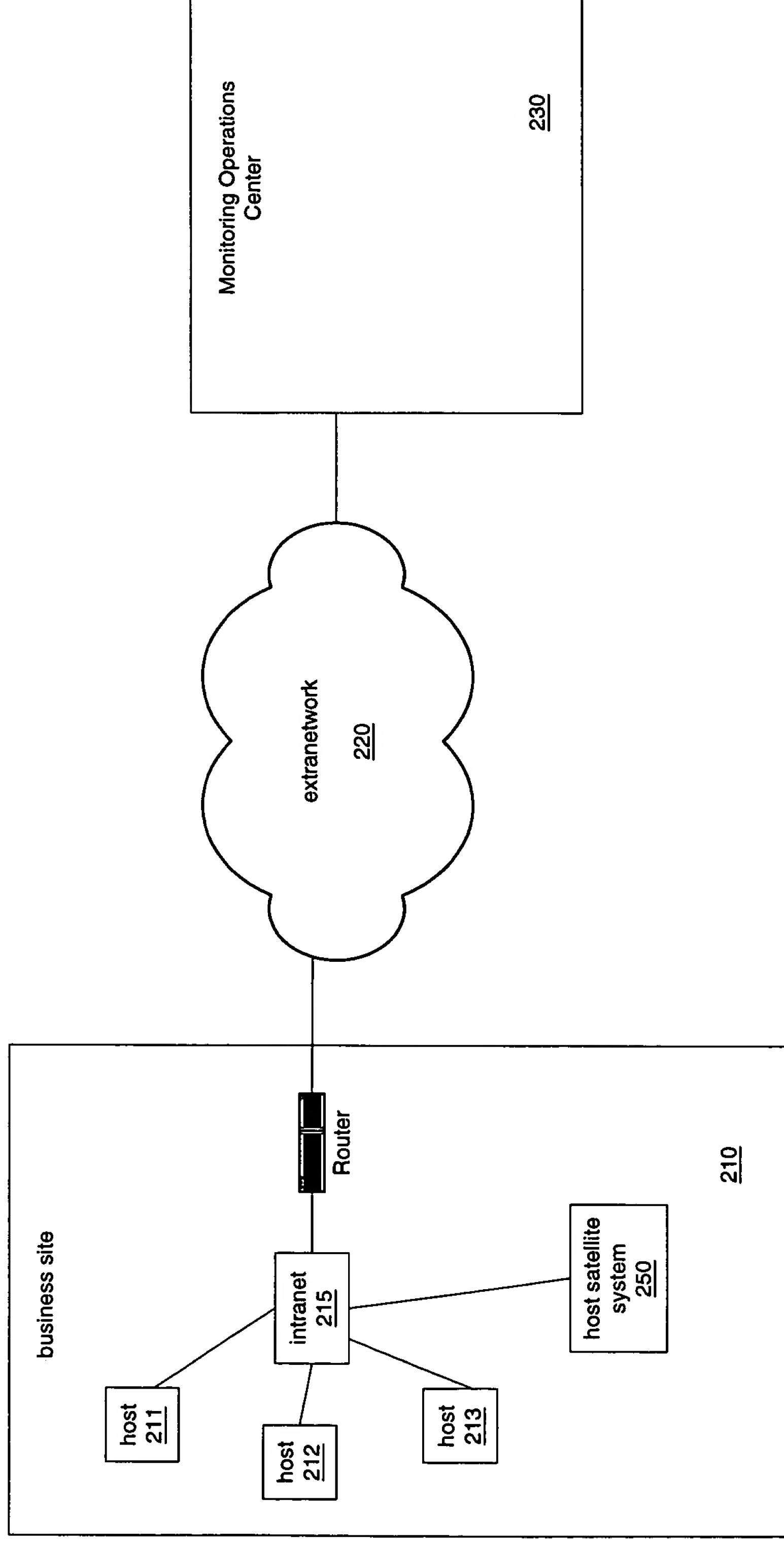


Figure 2A

TEST	PORT #	MONITORING
check_dig	NP	Tests host DNS
check_disk	NP	Checks disk space (%) host system and generates alert if percentage is above threshold values.
check_dns_resolution	NP	Obtains IP address for specified host/domain query using nslookup. Can specify optional DNS server or default to specified server.
check_ftp	21	Tests an FTP connection with the host and generates an alert if answer time is above threshold values.
check_printer	NP	Tests the status of a printer.
check_http/https	80 (http) 443 (https)	Test the HTTP service on the host. Test normal and secure servers and generates an alert if the answer time is above a threshold value. Follows redirects, searches for strings and regular expressions, checks connection times, and reports on certificate expiration times.
check_imap	143	Tests the IMAP4 service on the specified host and generates an alert if answer time is above threshold values.
check_ircd	6667	Tests IRC daemon on the host and returns an alert of the number of users is above threshold values.
check_nntp	119	Tests the network news service on host and generates an alert if answer time is above threshold values.
check_ntp	NP	Tests Network Time service and generates an alert when offset(s) is above threshold values.
check_oracle	NP	Tests remote or local TNS status and local database status.
check_pop	110	Tests POP mail service on host and generates an alert if answer time is above threshold values.
check_postgresql	5432	Tests postgres SQL service on host and generates an alert if answer time is above threshold values.
check_real	554	Tests the IMAP4 service on the specified host (at port 554) and generates an alert if answer time is above threshold values.
check_rpc		Tests if a RPC service is registered and running on host using rpcinfo command.
check_smtp	25	Tests the SMTP mail service on host and generates an alert if answer time is above threshold values.
check_snmp		Tests SNMP service on host and generates an alert if answer time is above threshold values.
check_ssh	22	Tests SSH service on host and generates an alert if request times out.
check_tcp	Any	Tests TCP connections with host and generates an alert if answer time is above threshold values.
check_time	NP	Tests time port on host and generates an alert if answer time is above threshold values.
check_udp	Any	Tests UDP connection on host and generates an alert if answer time is above threshold values.

Figure 2B

PARAMETER	THRESHOLD LEVELS	THRESHOLD VALUES
Disk Utilization	OK	< 75%
	Warning	75%
	Critical	90%
Processor Utilization	OK	< 70%
	Warning	70%
	Critical	85%
Load	OK	< 0.8
	Warning	0.8
	Critical	1
Memory Utilization	OK	< 20%
	Warning	20% free
	Critical	10% free
Swap Space	OK	< 20%
	Warning	20% free
	Critical	10% free
Number of Users	OK	< 10 users
	Warning	10 users
	Critical	20 users
Number of Processes	OK	< 400 processes
	Warning	400 processes
	Critical	700 processes

Figure 2C

Digital Processing System

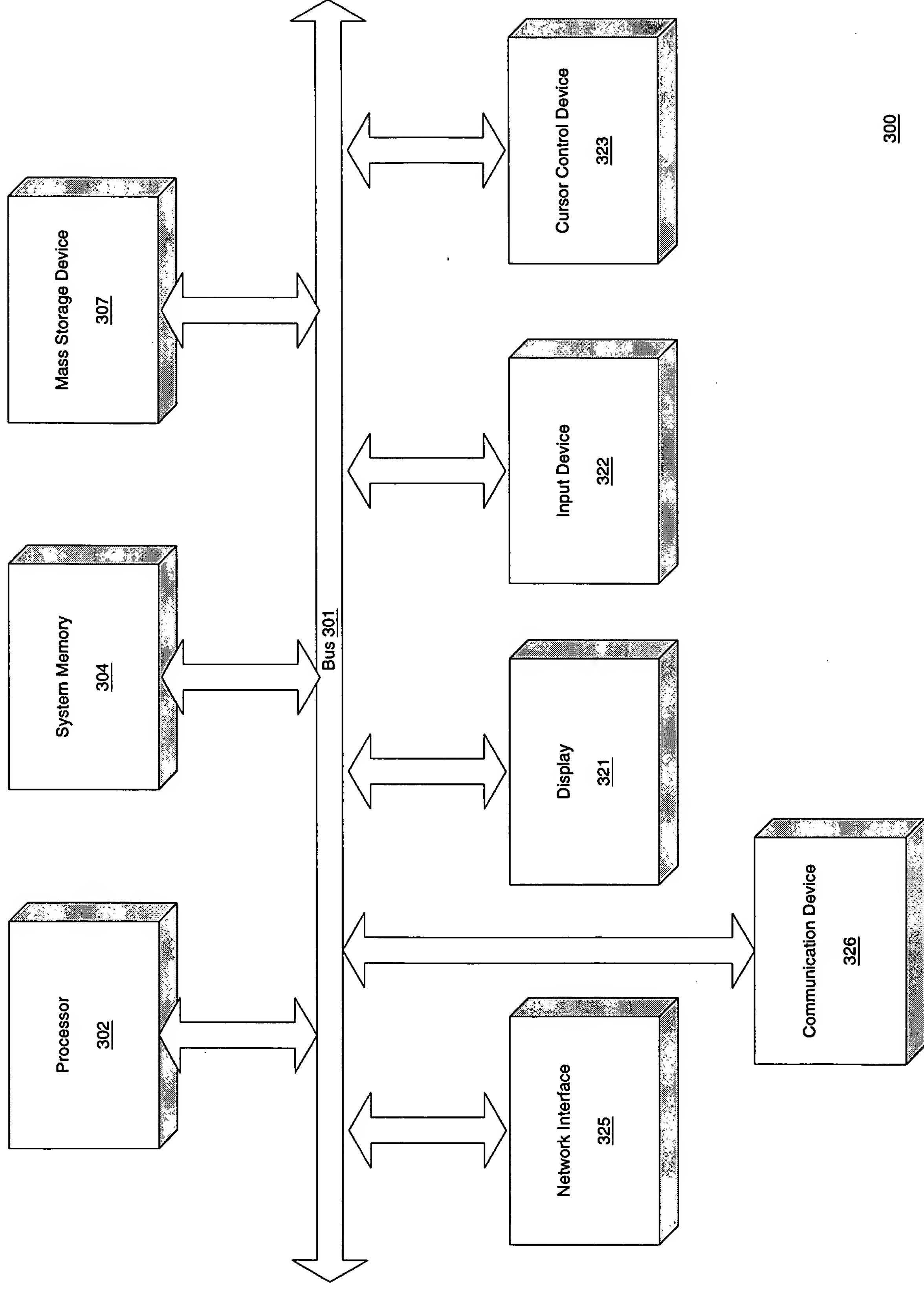


Figure 3

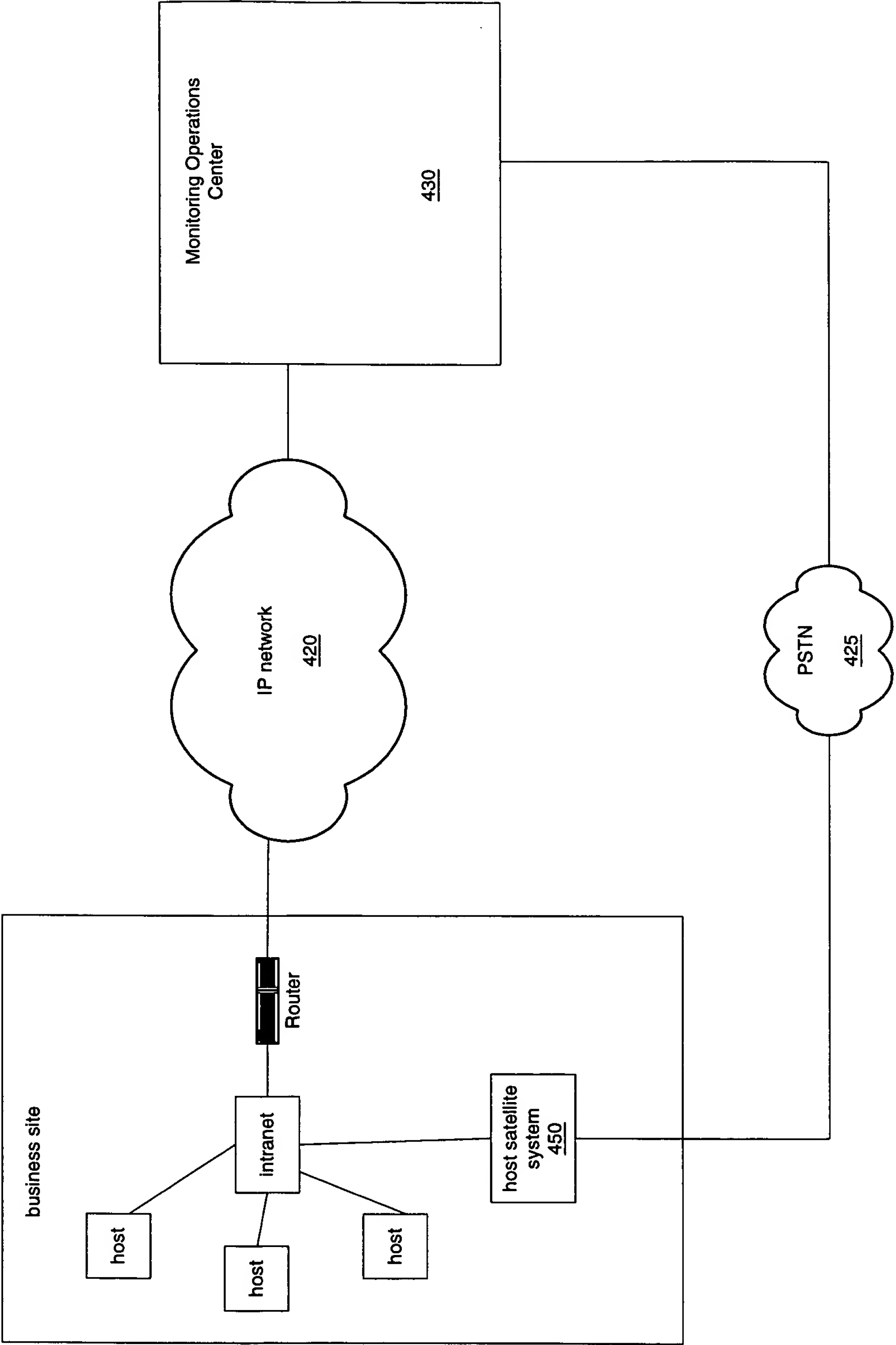


Figure 4

530

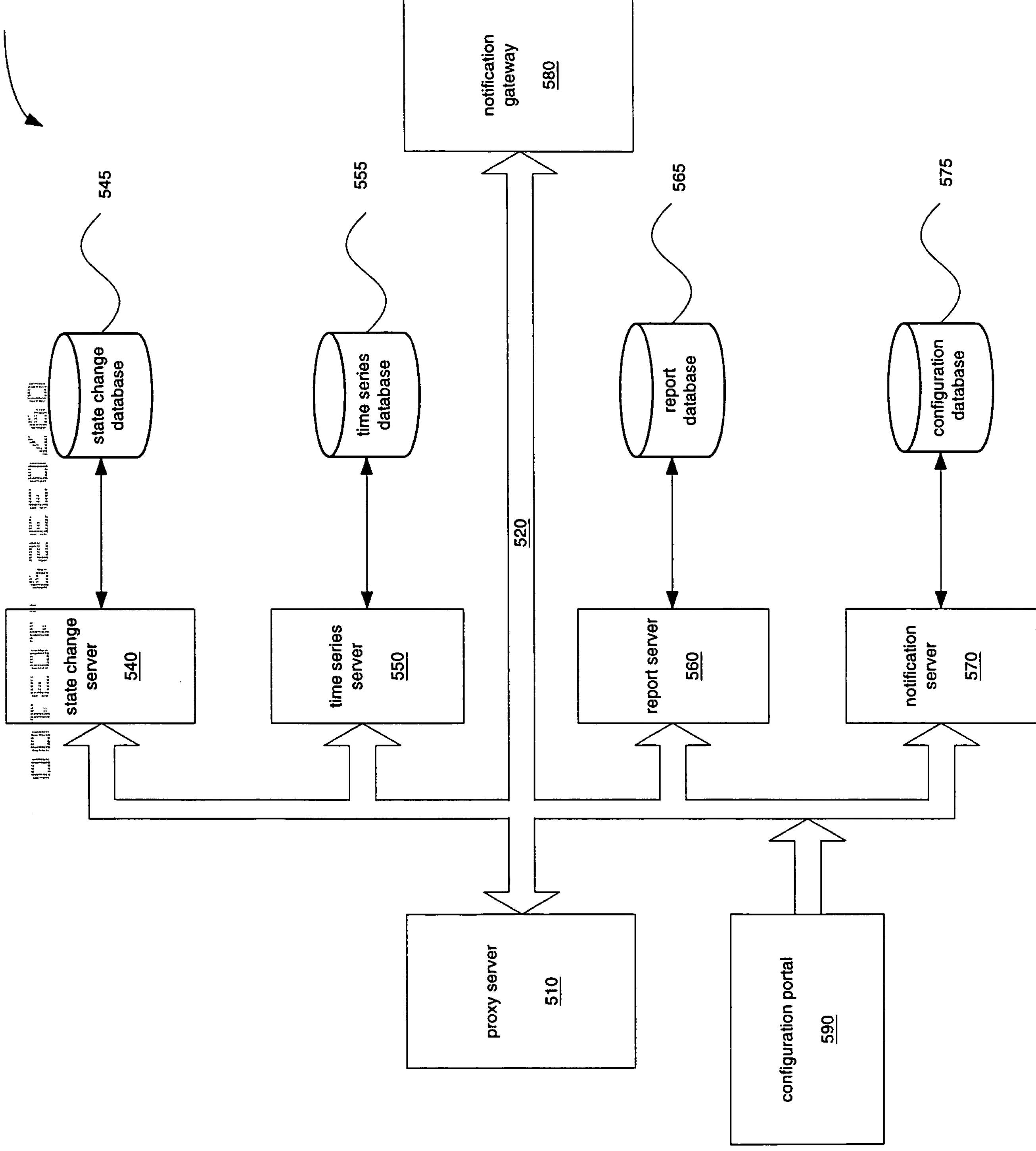


Figure 5

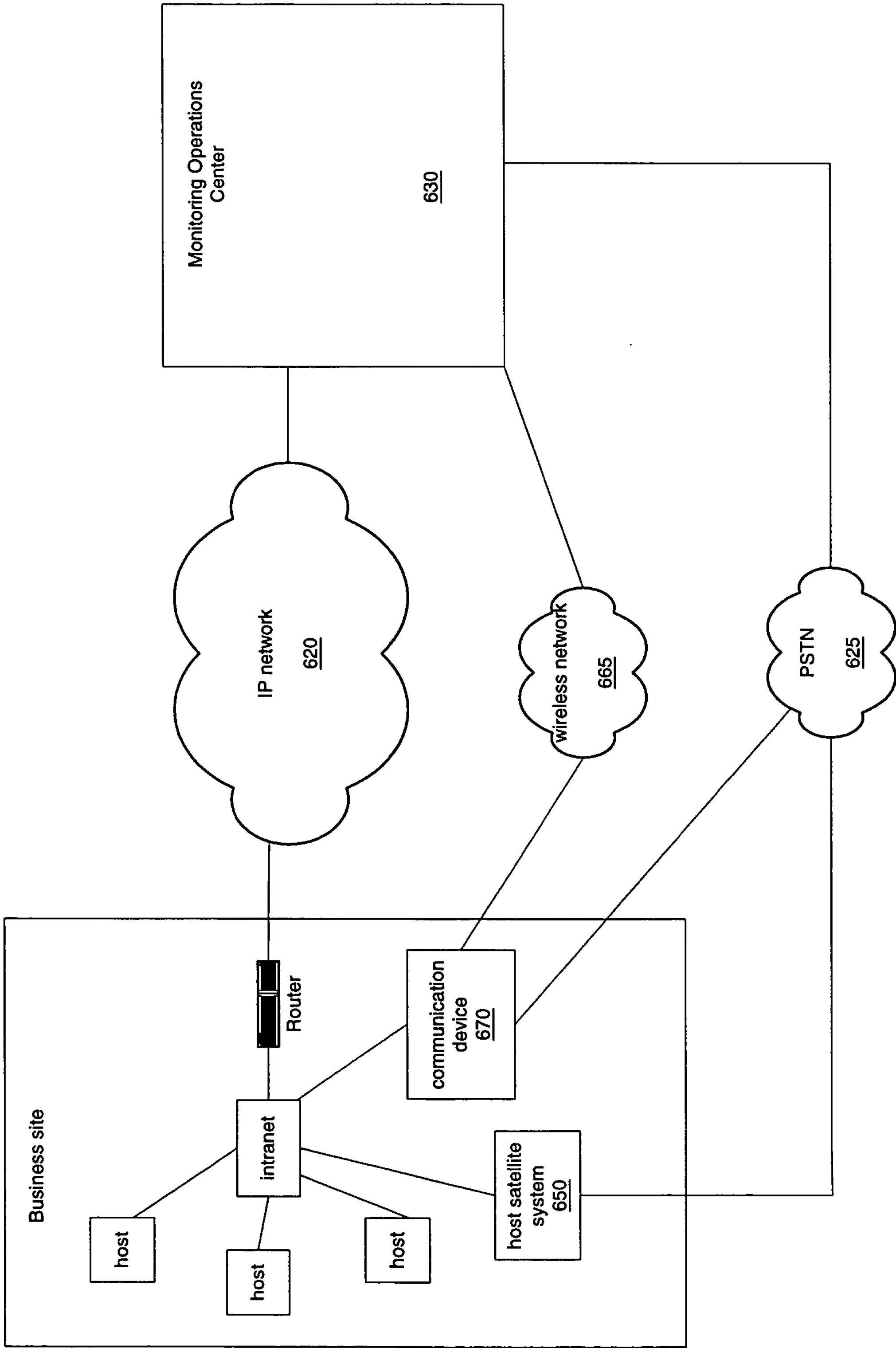


Figure 6

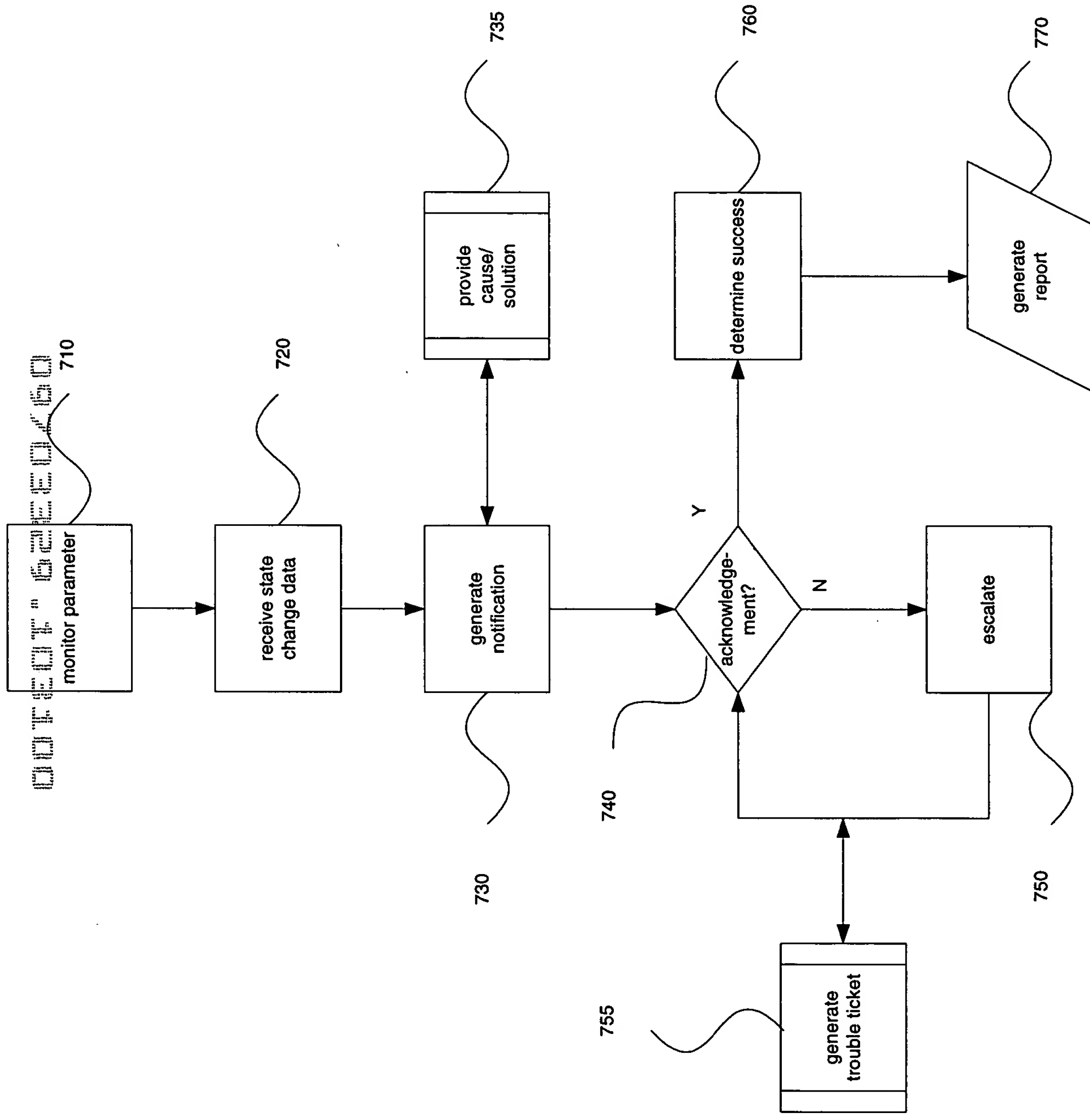


Figure 7